

WHAT'S NEW IN NRC MODEL VERSION 2.2

1. REORDERED ELEMENT LIST

NRC Elements have been reordered so that "Disconnect" Elements follow the "Connect" Element of the same type.

2. RENAMED STEPS

Many of the steps within the model have been renamed for consistency.

3. NEW VARIABLE NAMES

CO Staffed Percentage - this variable was called 'CO Staffed - Unstaffed Ratio' in NRCM Version 2.1.

4. CHANGE IN DEFAULT VALUE

Setup Time (in minutes) - the default value has increased from 5 to 10 minutes in NRCM Version 2.2.

5. SAVE BATCH RUN

The save batch run now saves a macro "button" that will print out the run as it does within the model itself.

6. VISUAL BASIC CODE

The code within the model has been rearranged and documented.

7. BATCH RUN ORDER

The "pop up" windows are in a more logical sequence - after you select the state / company you now get the labor rate window next rather than be asked to exclude service types.

8. CLEAR OUTPUT BUTTON

The clear output button is improved to clear the "element selection" on the process and calcs sheet.

9. SPINNER INPUT

Some of the spinner input boxes did not accept direct input that is now fixed.

10. TRAVEL TIME

Travel time within the CO is now "hard-coded" as 10 minutes. Travel time to the non staffed CO is still 20 minutes.

11. REMOVAL OF TIMES

The times (minutes) have been removed from those activities / steps that have 'CPU Time' associated with them.

12. RENAMED NRC ELEMENTS

The development team changed the names of the following NRC elements in the latest version of the model:

New Element Name	Old Element Name
2 Wire Migration at the FDI	2 Wire Cross Connect at the FDI - Migration
4 Wire Migration at the FDI	4 Wire Cross Connect at the FDI - Migration
2 Wire Migration at 6 line NID	2 Wire Cross Connect at 6 line NID -
	Migration
DS1 Interoffice Transport Install	DS1 Interoffice Transport
DS3 Interoffice Transport Install	DS3 Interoffice Transport
Fiber Cross Connects Install (LGX)	Fiber Cross Connects - Install
Fiber Disconnect (LGX)	Fiber Cross Connects - Disconnect
SS7 STP message transfer part 'A Link' only	SS7 STP message transfer part 'A Link' only
(port) Install	- Install
SS7 STP message transfer part 'A Link' only	SS7 STP message transfer part 'A Link' only
(port) Disconnect	- Disconnect

13. ADDITIONAL NRC ELEMENTS

The development team added the following five NRC elements to the model:

- DS1 Interoffice Transport Disconnect
- DS3 Interoffice Transport Disconnect
- DS3 Loop to Customer Premise Migration
- DS3 Loop to Customer Premise Install
- DS3 Loop to Customer Premise Disconnect

Currently, there are 49 Elements in NRCM Version 2.2.

NOTE: Descriptions for the Element Types listed below refer to the Non-Recurring Cost Model (NRCM) Version 2.2.

Element Type 1: POTS / ISDN BRI Migration (TSR)

Process Flow / Activity steps remained the same.

Element Type 2: POTS / ISDN BRI Install (TSR)

Process Flow / Activity steps remained the same.

Element Type 3: POTS / ISDN BRI Migration (UNE Platform)

Process Flow / Activity steps remained the same.

Element Type 4: POTS / ISDN BRI Install (UNE Platform)

Process Flow / Activity steps remained the same.

Element Type 5: POTS / ISDN BRI Disconnect (TSR / UNE-Platform)

Step 19: SWITCH inventories as spare and shows available for re-assignment (equipment and facility) - is an additional step. However, the addition of this step does not affect price.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Element Type 6: POTS / ISDN BRI Migration (UNE-Loop)

Process Flow / Activity steps remained the same.

Element Type 7: POTS / ISDN BRI Install (UNE-Loop)

Process Flow / Activity steps remained the same.

Element Type 8: POTS / ISDN BRI Disconnect (UNE-Loop)

Process Flow / Activity steps remained the same.

Element Type 9: Feature Changes

Process Flow / Activity steps remained the same.

Element Type 10: 4 Wire Migration (UNE-Loop)

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

- Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Step 120: Negotiate customer release (CLEC to ILEC) the time has decreased from 20 minutes to 15 minutes.

Element Type 11: 4 Wire Install (UNE-Loop)

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

• Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % - the time has decreased from 20 minutes to 10 minutes.

Step 83: NCTE installation & testing - the time is 2 minutes in NRCM Version 2.2.

The cost associated with this step is recovered via recurring rates.

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Element Type 12: 4 Wire Disconnect (UNE-Loop)

COE and CFA spare and available for reassignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

- Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Step 123 NTEC contacts SSC to verify valid disconnect is an additional step.

Step 44: *TIRKS inventories as spare and shows available for re-assignment (equipment & facility)* - is an additional step. However, the cost associated with this step is recovered via recurring rates.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Element Type 13: 2 Wire Migration at the FDI

Key driver of the cost differential is the following:

- Step 101: Setup time / 2 work activities the time has increased from 5 minutes to 10 minutes.
- Step 104: *Tear down setup / 2 work activities* the time has increased from 5 minutes to 10 minutes.

Element Type 14: 2 Wire Disconnect at the FDI

Key driver of the cost differential is the following:

- Step 105: Setup time / 2 work activities the time has increased from 5 minutes to 10 minutes.
- Step 108: *Tear down setup / 2 work activities* the time has increased from 5 minutes to 10 minutes.

Element Type 15: 4 Wire Migration at the FDI

- Step 69: Travel time to FDI / 1 work activities the probability now reflects 100%.
- Step 110: Negotiate customer release (CLEC to ILEC) the time has decreased from 20 minutes to 15 minutes.
- Step 111: Setup time / 1 work activity the time has increased from 5 minutes to 10 minutes.
- Step 113: *Tear down setup / 1 work activity* the time has increased from 5 minutes to 10 minutes.

Step 65: Travel time within the staffed central office: CO staffed / # orders per trip * Copper %: "R" - the time has decreased from 20 minutes to 10 minutes.

Element Type 16: 4 Wire Disconnect at the FDI

Key driver of the cost differential is the following:

- Step 69: Travel time to FDI / 1 work activities the probability now reflects 100%.
- Step 116: Setup time / 2 work activities the time has increased from 5 minutes to 10 minutes.
- Step 118: *Tear down setup / 2 work activities* the time has increased from 5 minutes to 10 minutes.
- Step 124: SS I&M OSP contacts SSC to verify valid disconnect is an additional step.

Element Type 17: 2 Wire Migration at 6 line NID

Key driver of the cost differential is the following:

- Step 159: Setup time / 1 work activity the time has increased from 5 minutes to 10 minutes.
- Step 162: *Tear down setup / 1 work activity* the time has increased from 5 minutes to 10 minutes.

Element Type 18: Channelized DS1 Virtual Feeder to RT Install

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

- Step 67: Travel time within the staffed central office: CO staffed / # orders per trip the time has decreased from 20 minutes to 10 minutes.
- Step 188: *Retrieve and analyze performance monitoring data* the cost associated with this step is now recovered via recurring rates.

Element Type 19: Channelized DS1 Virtual Feeder to RT Disconnect

COE and CFA spare and available for reassignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

• Step 67: Travel time within the staffed central office: CO staffed / # orders per trip - the time has decreased from 20 minutes to 10 minutes.

Step 37: *OPS/INE delivers disconnect message to INE* - the probability now reflects 100%. However the cost associated with this step is recovered via recurring rates.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Step 44: *TIRKS inventories as spare and shows available for re-assignment (equipment & facility)* - is an additional step. However, the cost associated with this step is recovered via recurring rates.

Element Type 20: DS1 Interoffice Transport Install

Key driver of the cost differential is the following:

• Step 188: Retrieve and analyze performance monitoring data - the cost associated with this step is now recovered via recurring rates.

Element Type 21: DS1 Interoffice Transport Disconnect

The following NRC element type has been added to NRCM Version 2.2.

Element Type 22: DS3 Interoffice Transport Install

Key driver of the cost differential is the following:

• Step 174: *Retrieve and analyze performance monitoring data* - the cost associated with this step is now recovered via recurring rates.

Element Type 23: DS3 Interoffice Transport Disconnect

The following NRC element type has been added to NRCM Version 2.2.

Element Type 24: 2 Wire Loop, different CO Migration

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

- Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Step 120: Negotiate customer release (CLEC to ILEC) the time has decreased from 20 minutes to 15 minutes.
- Step 131: *Install cross connect (2 wire wrap, to AD4 ADTS Channel Bank / unitized SMAS)* the time has decreased from 3 minutes to 1.50 minutes.

Element Type 25: 2 Wire Loop, different CO Install

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

- Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Step 131: *Install cross connect (2 wire wrap, to AD4 ADTS Channel Bank / unitized SMAS)* the time has decreased from 3 minutes to 1.50 minutes.

Element Type 26: 2 Wire Loop, different CO Disconnect

COE and CFA spare and available for reassignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

- Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Remove cross connect (COSMIC like frame, e.g. punch-down, 2 four wire jumpers) this step has been deleted from NRCM Version 2.2.
- Step 132: *Remove (2 wire wrap, to AD4 ADTS Channel Bank / unitized SMAS)* the time has decreased from 3 minutes to 1.50 minutes.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Step 44: *TIRKS inventories as spare and shows available for re-assignment (equipment & facility)* - is an additional step. However, the cost associated with this step is recovered via recurring rates.

Element Type 27: 4 Wire Loop, different CO Migration

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

- Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Step 120: Negotiate customer release (CLEC to ILEC) the time has decreased from 20 minutes to 15 minutes.

Element Type 28: 4 Wire Loop, different CO Install

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

• Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % - the time has decreased from 20 minutes to 10 minutes.

Element Type 29: 4 Wire Loop, different CO Disconnect

COE and CFA spare and available for reassignments are made - has been eliminated. However, the deletion of this step does not affect price.

- Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Remove cross connect Wire Wrap to AD4 Channel Bank (ADTS) / unitized SMAS this step has been deleted from NRCM Version 2.2.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Step 44: *TIRKS inventories as spare and shows available for re-assignment (equipment & facility)* - is an additional step. However, the cost associated with this step is recovered via recurring rates.

Element Type 30: DS1 Loop to Customer Premise Migration

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

- Step 66: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Step 120: Negotiate customer release (CLEC to ILEC) the time has decreased from 20 minutes to 15 minutes.

Element Type 31: DS1 Loop to Customer Premise Install

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

• Step 66: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % - the time has decreased from 20 minutes to 10 minutes.

Element Type 32: DS1 Loop to Customer Premise Disconnect

COE and CFA spare and available for reassignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

• Step 66: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % - the time has decreased from 20 minutes to 10 minutes.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Step 44: *TIRKS inventories as spare and shows available for re-assignment (equipment & facility)* - is an additional step. However, the cost associated with this step is recovered via recurring rates.

Element Type 33: DS3 Loop to Customer Premise Migration

The following NRC element type has been added to NRCM Version 2.2.

Element Type 34: DS3 Loop to Customer Premise Install

The following NRC element type has been added to NRCM Version 2.2.

Element Type 35: DS3 Loop to Customer Premise Disconnect

The following NRC element type has been added to NRCM Version 2.2.

Element Type 36: Line Port (DS0, Analog, ISLU) Install

Process Flow / Activity steps remained the same.

Element Type 37: Line Port (DS0, Analog, ISLU) Disconnect

Process Flow / Activity steps remained the same.

Element Type 38: Channelized DS1 line port (TR-303-IDT) Install

Key driver of the cost differential is the following:

• Step 67: Travel time within the staffed central office: CO staffed / # orders per trip - the time has decreased from 20 minutes to 10 minutes.

Element Type 39: Channelized DS1 line port (TR-303-IDT) Disconnect

Process Flow / Activity steps remained the same.

Element Type 40: Fiber Cross Connects Install (LGX)

Key driver of the cost differential is the following:

• Step 67: Travel time within the staffed central office: CO staffed / # orders per trip - the time has decreased from 20 minutes to 10 minutes.

Element Type 41: Fiber Disconnect (LGX)

Key driver of the cost differential is the following:

• Step 67: Travel time within the staffed central office: CO staffed / # orders per trip - the time has decreased from 20 minutes to 10 minutes.

Element Type 42: SS7 Links (DS0) Install

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

• Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % - the time has decreased from 20 minutes to 10 minutes.

Element Type 43: SS7 Links (DS0) Disconnect

COE and CFA assignments are made - has been eliminated. However, the deletion of this step does not affect price.

Key driver of the cost differential is the following:

• Step 64: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % - the time has decreased from 20 minutes to 10 minutes.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Step 44: *TIRKS inventories as spare and shows available for re-assignment (equipment & facility)* - is an additional step. However, the cost associated with this step is recovered via recurring rates.

Element Type 44: SS7 Links (DS1) Install

Key driver of the cost differential is the following:

- Step 66: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % the time has decreased from 20 minutes to 10 minutes.
- Step 188: *Retrieve and analyze performance monitoring data* the cost associated with this step is now recovered via recurring rates.

Element Type 45: SS7 Links (DS1) Disconnect

Key driver of the cost differential is the following:

• Step 66: Travel time within the staffed central office: CO staffed / # orders per trip * Copper % - the time has decreased from 20 minutes to 10 minutes.

TIRKS provides equipment and facility assignments - has been eliminated. However, the deletion of this step does not affect price.

Step 44: *TIRKS inventories as spare and shows available for re-assignment (equipment & facility)* - is an additional step. However, the cost associated with this step is recovered via recurring rates.

Element Type 46: SS7 STP global title translations 'A Link' only Install

Process Flow / Activity steps remained the same.

Element Type 47: SS7 STP global title translations 'A Link' only Disconnect Process Flow / Activity steps remained the same.

Element Type 48: SS7 STP message transfer part 'A Link' only (port) Install

Process Flow / Activity steps remained the same.

Element Type 49: SS7 STP message transfer part 'A Link' only (port) Disconnect Key driver of the cost differential is the following:

• Step 197: *Insert translations to place in an out-of-service and available state* - the time has decreased from 5 minutes to 4 minutes.